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1 [Triage: diagnosing production run failures at the user's site](#)
 Joseph Tucek, Shan Lu, Chengdu Huang, Spiros Xanthos, Yuanyuan Zhou
 October 2007 SOSOP '07: Proceedings of twenty-first ACM SIGOPS symposium on Operating systems principles


Publisher: ACM

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Bibliometrics: Downloads (6 Weeks): 12, Downloads (12 Months): 128, Citation Count: 0

Diagnosing production run failures is a challenging yet important task. Most previous work focuses on offsite diagnosis, i.e. development site diagnosis with the programmers present. This is insufficient for production-run failures as: (1) it is difficult ...


Keywords: debugging, diagnosis, onsite

2 [Triage: diagnosing production run failures at the user's site](#)
 Joseph Tucek, Shan Lu, Chengdu Huang, Spiros Xanthos, Yuanyuan Zhou
 October 2007 ACM SIGOPS Operating Systems Review, Volume 41 Issue 6
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3 [ACM SIGPLAN Notices: Volume 40 Issue 8](#)
 August 2005 issue Volume 40 Issue 8
 Publisher: ACM

Additional Information: full citation, index terms

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Citation Count: 0

4 [An empirical study of static call graph extractors](#)
 Gail C. Murphy, David Notkin, William G. Griswold, Erica S. Lan
 April 1998 ACM Transactions on Software Engineering and Methodology (TOSEM).





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Volume 7 Issue 2

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Informally, a call graph represents calls between entities in a given program. The call graphs that compilers compute to determine the applicability of an optimization must typically be conservative: a call may be omitted only if it can never occur in ...

Keyw ords: call graphs, design space, empirical study, software system analysis, static analysis

5 [An empirical study of regression testing techniques incorporating context and lifetime factors and improved cost-benefit models](#)

Hyunsook Do, Gregg Rothermel

November 2006 SIGSOFT '06/ FSE-14: Proceedings of the 14th ACM SIGSOFT international symposium on Foundations of software engineering

Publisher: ACM

Full text available:  pdf(236.38 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

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Regression testing is an important but expensive activity, and a great deal of research on regression testing methodologies has been performed. In recent years, much of this research has emphasized empirical studies, including evaluations of the effectiveness ...

Keyw ords: economic models, empirical studies, evaluation schemes, regression test selection, regression testing, test case prioritization

6 [TraceBack: first fault diagnosis by reconstruction of distributed control flow](#)

Andrew Ayers, Richard Schooler, Chris Metcalf, Anant Agarwal, Junghwan Rhee, Emmett Witchel

June 2005 ACM SIGPLAN Notices, Volume 40 Issue 6

Publisher: ACM

Full text available:  pdf(947.77 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 63, Citation Count: 2

Faults that occur in production systems are the most important faults to fix, but most production systems lack the debugging facilities present in development environments. TraceBack provides debugging information for production systems by providing ...

Keyw ords: fault diagnosis, instrumentation

7 [TraceBack: first fault diagnosis by reconstruction of distributed control flow](#)

Andrew Ayers, Richard Schooler, Chris Metcalf, Anant Agarwal, Junghwan Rhee, Emmett Witchel

June 2005 PLDI '05: Proceedings of the 2005 ACM SIGPLAN conference on Programming language design and implementation

Publisher: ACM

Full text available:  pdf(347.77 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 63, Citation Count: 2

Faults that occur in production systems are the most important faults to fix, but most production systems lack the debugging facilities present in development environments. TraceBack provides debugging information for production systems by providing ...

The gap between processor and main memory performance increases every year. In order to overcome this problem, cache memories are widely used. However, they are only effective when programs exhibit sufficient data locality. Compile-time program transformations ...

Keyw ords: Cache memories, optimization, sampling

12 [Performance debugging for distributed systems of black boxes](#)



Marcos K. Aguilera, Jeffrey C. Mogul, Janet L. Wiener, Patrick Reynolds, Athicha

Muthitacharoen

December 2003 ACM SIGOPS Operating Systems Review, Volume 37 Issue 5

Publisher: ACM

Full text available: [pdf\(408.85 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

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Many interesting large-scale systems are distributed systems of multiple communicating components. Such systems can be very hard to debug, especially when they exhibit poor performance. The problem becomes much harder when systems are composed of "black-box" ...

Keyw ords: black box systems, distributed systems, performance analysis, performance debugging

13 [Performance debugging for distributed systems of black boxes](#)



Marcos K. Aguilera, Jeffrey C. Mogul, Janet L. Wiener, Patrick Reynolds, Athicha

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October 2003 SOSP '03: Proceedings of the nineteenth ACM symposium on Operating systems principles

Publisher: ACM

Full text available: [pdf\(408.85 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

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Keyw ords: black box systems, distributed systems, performance analysis, performance debugging

14 [BorderPatrol: isolating events for black-box tracing](#)



Eric Koskinen, John Jannotti

April 2008 ACM SIGOPS Operating Systems Review, Volume 42 Issue 4

Publisher: ACM

Full text available: [pdf\(360.78 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 35, Downloads (12 Months): 35, Citation Count: 0

Causal request traces are valuable to developers of large concurrent and distributed applications, yet difficult to obtain. Traces show how a request is processed, and can be analyzed by tools to detect performance or correctness errors and anomalous ...

Keyw ords: black box systems, causal paths, distributed systems, performance analysis, performance debugging

15 [BorderPatrol: isolating events for black-box tracing](#)

Eric Koskinen, John Jannotti

April 2008 Eurosys '08: Proceedings of the 3rd ACM SIGOPS/EuroSys European Conference on Computer Systems 2008

Publisher: ACM

Full text available:  [pdf\(300.78 KB\)](#) [Additional Information: full citation, abstract, references, index terms](#)

Bibliometrics: Downloads (6 Weeks): 35, Downloads (12 Months): 35, Citation Count: 0

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Keyw ords: black box systems, causal paths, distributed systems, performance analysis, performance debugging

16 [Software performance in the real world: personal lessons from the performance trauma team](#)

Jayshankar Sankarasetty, Kevin Mobley, Libby Foster, Tad Hammer, Terri Calderone

February 2007 WOSP '07: Proceedings of the 6th international workshop on Software and performance

Publisher: ACM

Full text available:  [pdf\(649.10 KB\)](#) [Additional Information: full citation, abstract, references, index terms](#)

Bibliometrics: Downloads (6 Weeks): 22, Downloads (12 Months): 350, Citation Count: 0





In the nine years that we have been involved in software performance engineering (SPE) and performance testing engagements we have learned several things. Across numerous eCommerce applications and an enterprise CRM product suite, our knowledge base ...

Keyw ords: ITIL, performance testing, project management, six sigma, software performance engineering, software performance management

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